Application Serial No. 10/540,892
Reply to final office action of June 5, 2009

PATENT
Docket: CU-4288

## Amendments to the Claims

The listing of claims presented below will replace all prior versions, and listings, of claims in the application.

### Listing of claims:

1. (currently amended) An apparatus for transmitting data in a digital broadcasting system, comprising:

a source encoding unit for encoding data to be transmitted and generating source-coded data;

a capacity managing unit for dividing the source-coded data into divided data for a plurality of channels, and generating header information corresponding to the divided data;

a channel encoding unit for encoding **each of** the divided data according to **each of** channel environment and generating channel-coded data **for transmitting the channel-coded data through multiple frequency bands**; and

a transmitting unit for multiplexing, modulating and transmitting the channel-coded data ~~through multiple frequency bands and multiple broadcasting sites~~.

2. (previously presented) The apparatus as recited in claim 1, wherein the capacity managing unit stores information of available capacity and unavailable capacity for each frequency band, divides the source-coded data in case that an available data capacity for transmitting the source-coded data does not exist in one channel but sum of the available data capacities of multiple channels can accommodate the source-coded data, and adds the header information in a data packet so as to reconstruct the data in the

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receiving apparatus.

3. (withdrawn) An apparatus for receiving data in a digital broadcasting system, comprising:

a tuning means for receiving transmitted data through multiple frequency bands and multiple broadcasting sites;

a demodulating means for demodulating the received data and generating demodulated data;

a de-multiplexing means for de-multiplexing the demodulated data and generating de-multiplexed data;

a decoding means for decoding the de-multiplexed data and generating decoded data; and

a data combining means for combining the decoded data.

4. (withdrawn) The apparatus as recited in claim 3, wherein the combining means combines the data based on header information that is included in the decoded data.

5. (**currently amended**) A method for transmitting data in a digital broadcasting system, comprising:

(a) encoding image data and audio data to be transmitted and generating source-coded data;

(b) dividing the source-coded data into divided data for a plurality of channels, and generating header information corresponding to the divided data;

(c) channel encoding **each of** the divided data according to **each of** channel

~~environment~~ **environments** and generating channel-coded data **for transmitting the**

**channel-coded data through multiple frequency bands**; and

(d) multiplexing, modulating and transmitting the channel-coded data ~~through~~

~~multiple frequency bands and multiple broadcasting sites~~.


6. **(previously presented)** The method as recited in claim 5, wherein the dividing the

source-coded data includes storing information of available capacity and unavailable

capacity for each frequency bands, and dividing the source-coded data in case that an

available data capacity for transmitting the source-coded data does not exist in one

channel but sum of available data capacities of the multiple channels can accommodate

the source-coded data, wherein the header information is used to reconstruct the data

in the receiving apparatus.


7. (withdrawn) A method for receiving data in a digital broadcasting system, comprising

the steps of:

(a) receiving transmitted data through multiple frequency bands and multiple

broadcasting sites;

(b) demodulating the received data for each frequency band and generating

demodulated data;

(c) de-multiplexing the demodulated data for each frequency bands and

generating de-multiplexed data;

(d) decoding the de-multiplexed data for each frequency bands and generating

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decoded data; and

     (e) at combining means, combining the decoded data.


8. (withdrawn) The method as recited in claim 7, wherein the combining means

combines the data based on header information that is included in the decoded data.